CALIFORNIA DIVISION OF MINES AND GEOLOGY

Supplement #1 to FER-37

April 28, 1977

1. Name of fault: Unnamed fault.

2. Location of fault: Located between the towns of Los Alamos and Los Olivos in Santa Barbara County (see figure 2).

3. Reason for evaluation: Located in 1976 study area of the 10-year program for fault evaluation in the state.

4. List of References:

a) Woodring, W.P., and Bramlette, M.N., 1950, Geology ond Paleontology of the Santa Maria district, California: U.S. Geological Survey, Professional Paper 222, 185 p., Plate 1, sheet 5 (scale 1:24,000).

b) Jennings, C.W., 1975, Fault map of California, California Division of Mines and Geology, Geologic Data Map Series, Map no. 1, scale 1:750,000.

c) Ziony, J.I., et al., 1974, Preliminary map showing recency of faulting in coastal southern California: U.S. Geological Survey, Map MF-585, sheet 1, scale 1:250,000.

5. Summary of available data:

Woodring and Bramlette (1950) mapped this fault in the late 1940's. An excerpt from their report discussing the structure in the Purisima hills follows:

The asymmetric Los Alamos syncline is faulted east of Los Alamos, the north limb evidently being downthrown. Immediately south of the fault the Paso Robles formation dips 40° to 70° northward, whereas to the north it dips only a few degrees southward. A linear sag (along which occur some undrained depressions) lies along this fault, 4 miles east of Los Alamos.

Ziony (1974) classifies these depressions as Holocene topographic features. However, he states (Personal communication, April 25, 1977) "The depression occur on a late Pleistocene stream terrace deposit."

6. Air photo interpretation: No air photo work done.

7. Field observations: None.

8. Conclusions: This fault has never actually been observed in the field. It is postulated to exist based on the sharp change in the dip of Paso Robles beds. It should not be classified as a Holocene feature since the closed depressions that lie along its trace are in a late Pleistocene unit.

9. Recommendations: I recommend that this unnamed fault should not be zoned for special studies at this time.

10. Investigating geologist's name; date:

Edward J Bortugno

EDWARD J. BORTUGNO
Geologist
April 28, 1977

I agree. However, much more work is needed on this and other faults (partly unmapped) in the Santa Maria Basin - EJB, 4/29/77

From Moore & Taber (1974)